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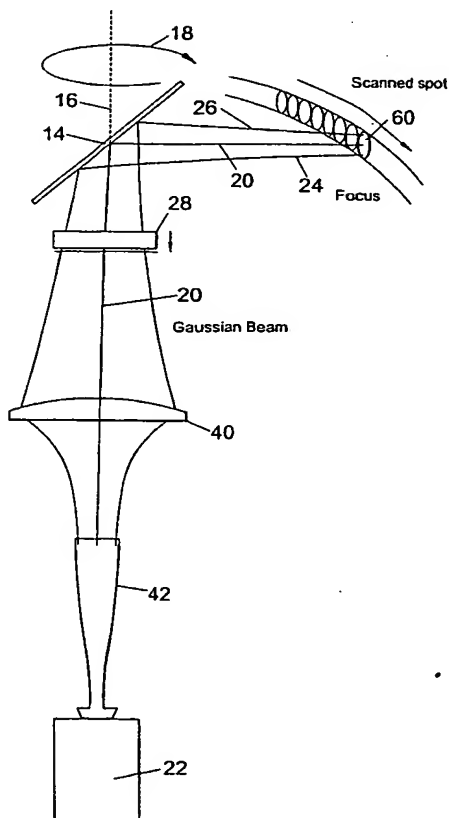
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(54) Title: MEDICAL IMAGING APPARATUS



(57) Abstract: A medical imaging apparatus for imaging subcutaneous body temperature that comprises a detector (22) for sensing millimetre wave electromagnetic radiation and a collector for collecting radiation emitted from a patient's body and directing it along a collection path (20) to the detector. The collector is configured so that the collected radiation has a defined sensitivity profile across and along substantially the entire length of that path. The collected radiation may have a Gaussian or a Bessel sensitivity profile.